Author index

Aartsma, T.J., see Van Kan, P.J.M. (1020) 146
Abramovitch, D.A., Marsh, D. and Powell, G.L.
Activation of beef-heart cytochrome *c* oxidase by cardiolipin and analogues of cardiolipin (1020) 34
Adams, M.W.W.
The structure and mechanism of iron-hydrogenases (1020) 115
Anderson, J.M., see Strid, Å. (1020) 260
Antonyuk-Barynina, S.V., see Khangulov, S.V. (1020) 25

Balaban, R.S., see Kupriyanov, V.V. (1020) 290
Barber, J. and Melis, A.
Quantum efficiency for the photoaccumulation of reduced pheophytin in Photosystem II (1020) 285
Barynin, V.V., see Khangulov, S.V. (1020) 25
Barynin, V.V., see Khangulov, S.V. (1020) 305
Berliner, M.A., see Karukstis, K.K. (1020) 163
Berliner, M.A., see Karukstis, K.K. (1020) 169
Boekema, E.J., Xiao, J. and McCarty, R.E.
Structure of the ATP synthase from chloroplasts studied by electron microscopy. Localization of the small subunits (1020) 49
Bona, M., Fabian, M. and Sedlák, M.
Spectral and catalytic properties of cytochrome oxidase in organic solvents (1020) 94
Boyer, P.D., see Milgrom, Y.M. (1020) 43
Breton, J., see Thibodeau, D.L. (1020) 253
Brettel, K., see Sétif, P. (1020) 232
Bulté, L., Gans, P., Rebéillé, F. and Wollman, F.-A.
ATP control on state transitions in vivo in *Chlamydomonas reinhardtii* (1020) 72

Chow, W.S., see Strid, Å. (1020) 260

Demmig-Adams, B.
Carotenoids and photoprotection in plants: A role for the xanthophyll zeaxanthin (1020) 1
Dennenberg, R.J., see Jursinic, P.A. (1020) 195
Ducruet, J.-M., see Kirilovsky, D. (1020) 87

Etienne, A.-L., see Kirilovsky, D. (1020) 87

Fabian, M., see Bona, M. (1020) 94
Forti, G. and Fusi, P.
Influence of thylakoid protein phosphorylation on Emerson enhancement and the quantum requirement of Photosystem I (1020) 247
Fromme, P. and Gräber, P.
ATP-hydrolysis in chloroplasts: uni-site catalysis and evidence for heterogeneity of catalytic sites (1020) 187
Fusi, P., see Forti, G. (1020) 247

Gans, P., see Bulté, L. (1020) 72
Garnier, J., Wu, B., Maroc, J., Guyon, D. and Trémolières, A.
Restoration of both an oligomeric form of the light-harvesting antenna CP II and a fluorescence state II-state I transition by Δ^3-*trans*-hexadecenoic acid-containing phosphatidylglycerol, ir cells of a mutant of *Chlamydomonas reinhardtii* (1020) 153
Gräber, P., see Fromme, P. (1020) 187
Grebenko, A.I., see Khangulov, S.V. (1020) 305
Guyon, D., see Garnier, J. (1020) 153

Hermes-Lima, M., see Vercesi, A.E. (1020) 101
Hienerwadel, R., see Thibodeau, D.L. (1020) 253
Holten, D., see McDowell, L.M. (1020) 239
Howlett, B., see Umbach, A.L. (1020) 278

Indiveri, C., Tonazzi, A. and Palmieri, F.
Identification and purification of the carnitine carrier from rat liver mitochondria (1020) 81
Inoue, Y., see Ono, T.-a. (1020) 269

Jagendorf, A.T., see Umbach, A.L. (1020) 278
Jewell, C.J., see Karukstis, K.K. (1020) 163
Jursinic, P.A. and Dennenberg, R.J.
Oxygen release time in leaf discs and thylakoids of peas and Photosystem II membrane fragments of spinach (1020) 195

Karukstis, K.K., Berliner, M.A. and Kuwata, K.T.
Analysis of π charge distribution in substituted anthraquinones to assess affinity for the Q_B binding site (1020) 169
Karukstis, K.K., Berliner, M.A., Jewell, C.J. and Kuwata, K.T.
Chlorophyll fluorescence measurements to assess the competition of substituted anthraquinones for the Q_B binding site (1020) 163
Khangulov, S.V., Barynin, V.V. and Antonyuk-Barynina, S.V.
Manganese-containing catalase from *Thermus thermophilus* peroxide-induced redox transformation of manganese ions in presence of specific inhibitors of catalase activity (1020) 25
Khangulov, S.V., Barynin, V.V., Voevodskaya, N.V. and Grebenko, A.I.
ESR spectroscopy of the binuclear cluster of manganese ions in the active center of Mn-catalase from *Thermus thermophilus* (1020) 305
Kirilovsky, D., Ducruet, J.-M. and Etienne, A.-L.
Primary events occurring in photoinhibition in *Synechocystis* 6714 wild-type and an atrazine-resistant mutant (1020) 87
Kirmaier, C., see McDowell, L.M. (1020) 239
Kleinherenbrink, F.A.M., see Van Kan, P.J.M. (1020) 146
Kupriyanov, V.V., Balaban, R.S., Lyulina, N.V., Steinschneider, A.Y. and Saks, V.A.
Combination of ^{31}P-NMR magnetization transfer and radioisotope exchange methods for assessment of an enzyme reaction mechanism: rate-determining steps of the creatine kinase reaction (1020) 290
Kuwata, K.T., see Karukstis, K.K. (1020) 163
Kuwata, K.T., see Karukstis, K.K. (1020) 169

Lenz, F., see Thibodeau, D.L. (1020) 253
Lyulina, N.V., see Kupriyanov, V.V. (1020) 290

Mäntele, W., see Thibodeau, D.L. (1020) 253
Maroc, J., see Garnier, J. (1020) 153
Marsh, D., see Abramovitch, D.A. (1020) 34
McCarty, R.E., see Boekema, E.J. (1020) 49
McCurley, J.P., Miki, T., Yu, L. and Yu, C.-A.
EPR characterization of the cytochrome b-c_1 complex from *Rhodobacter sphaeroides* (1020) 176
McDowell, L.M., Kirmaier, C. and Holten, D.
Charge transfer and charge resonance states of the primary electron donor in wild-type and mutant bacterial reaction centers (1020) 239

Melis, A., see Barber, J. (1020) 285
Meyer-Fernandes, J.R., see Vercesi, A.E. (1020) 101
Miki, T., see McCurley, J.P. (1020) 176
Milgrom, Y.M. and Boyer, P.D.
The ADP that binds tightly to nucleotide-depleted mitochondrial F_1-ATPase and inhibits catalysis is bound at a catalytic site (1020) 43
Miller, A. and Oesterhelt, D.
Kinetic optimization of bacteriorhodopsin by aspartic acid 96 as an internal proton donor (1020) 57

Nabedryk, E., see Thibodeau, D.L. (1020) 253
Nieveen, M.C., see Van Kan, P.J.M. (1020) 146

Oesterhelt, D., see Miller, A. (1020) 57
Ogrodnik, A.
The free energy difference between the excited primary donor ^1P and the radical pair state P^+H^- in reaction centers of *Rhodobacter sphaeroides* (1020) 65
Ono, T.-a. and Inoue, Y.
Abnormal redox reactions in photosynthetic O_2-evolving centers in NaCl/EDTA-washed PS II. A dark-stable EPR multiline signal and an unknown positive charge accumulator (1020) 269
Orme-Johnson, N.R.
Distinctive properties of adrenal cortex mitochondria (1020) 213
Otte, S.C.M., see Van Kan, P.J.M. (1020) 146

Palmieri, F., see Indiveri, C. (1020) 81
Powell, G.L., see Abramovitch, D.A. (1020) 34

Rebéillé, F., see Bulté, L. (1020) 72

Saks, V.A., see Kupriyanov, V.V. (1020) 290
Sedlák, M., see Bona, M. (1020) 94
Sétif, P. and Brettel, K.
Photosystem I photochemistry under highly reducing conditions: study of the P700 triplet state formation from the secondary radical pair ($P700^+$-A_1^-) (1020) 232
Sone, N. and Takagi, T.
Monomer-dimer structure of cytochrome-*c* oxidase and cytochrome bc_1 complex from the thermophilic bacterium PS3 (1020) 207
Steinschneider, A.Y., see Kupriyanov, V.V. (1020) 290
Strid, Å., Chow, W.S. and Anderson, J.M.
Effects of supplementary ultraviolet-B radiation on photosynthesis in *Pisum sativum* (1020) 260

Takagi, T., see Sone, N. (1020) 207
Takahashi, E. and Wraight, C.A.
A crucial role for Asp^{L213} in the proton transfer pathway to the secondary quinone of reaction centers from *Rhodobacter sphaeroides* (1020) 107
Thibodeau, D.L., Nabedryk, E., Hienerwadel, R., Lenz, F., Mäntele, W. and Breton, J.
Time-resolved FTIR spectroscopy of quinones in *Rb. sphaeroides* reaction centers (1020) 253
Tonazzi, A., see Indiveri, C. (1020) 81
Trémolières, A., see Garnier, J. (1020) 153

Umbach, A.L., Jagendorf, A.T. and Howlett, B.
N-Ethylmaleimide inhibits the sulfite stimulation of spinach thylakoid ATPase (1020) 278

Van Gorkom, H.J., see Van Kan, P.J.M. (1020) 146
Van Kan, P.J.M., Otte, S.C.M., Kleinherenbrink, F.A.M., Nieveen, M.C., Aartsma, T.J. and Van Gorkom, H.J.
Time-resolved spectroscopy at 10 K of the Photosystem II reaction center; deconvolution of the red absorption band (1020) 146
Vercesi, A.E., Hermes-Lima, M., Meyer-Fernandes, J.R. and Vieyra, A.
Calcium inhibition of the ATP $\rightleftharpoons$ $[^{32}P]P_i$ exchange and of net ATP synthesis catalyzed by bovine submitochondrial particles (1020) 101
Vieyra, A., see Vercesi, A.E. (1020) 101
Voevodskaya, N.V., see Khangulov, S.V. (1020) 305

Wollman, F.-A., see Bulté, L. (1020) 72
Wraight, C.A., see Takahashi, E. (1020) 107
Wu, B., see Garnier, J. (1020) 153

Xiao, J., see Boekema, E.J. (1020) 49

Yu, C.-A., see McCurley, J.P. (1020) 176
Yu, L., see McCurley, J.P. (1020) 176